

## CLAIMS

1 1. A fan revolution speed control method comprising steps  
2 of:

3 detecting an actual temperature of a cooling target  
4 fluid that is to be cooled by a cooling fan,

5 determining a target fan revolution speed based on the  
6 difference between the actual temperature detected and a  
7 target temperature by system of a proportional integral  
8 control unit, and

9 controlling said cooling fan based on said target fan  
10 revolution speed, wherein:

11 accumulation of integral elements at a negative side  
12 is restricted when performing integration by said  
13 proportional integral control unit.

1 2. A fan revolution speed control method as claimed in  
2 claim 1, wherein:

3 an integration start temperature, at which integration  
4 is initiated, serves as said target temperature so as to  
5 restrict accumulation of negative integral elements.

1 3. A as claimed in claim 1, wherein:

2 in cases where a minimum fan revolution speed has been  
3 determined, an integration start fan revolution speed, at  
4 which integration is initiated, is set at said minimum fan  
5 revolution speed so as to restrict accumulation of negative  
6 integral elements.